

AISHWARYA BOSE

*Bachelor of Technology in Information Technology, Malaviya National
Institute of Technology, Jaipur, India*

Thesis Title:

*Effective Web Service Discovery using a combination of a Semantic
Model and a Data mining technique*

Supervisors:

Dr. Richi Nayak (Principal)

Professor Peter David Bruza (Associate)

Citation:

This thesis documents a step forward in Web service discovery and composition by considering the semantic relationships of words used in describing the services, as well as linking multiple inter-related services primarily based on their input and output parameters. Experimental results suggest the proposed Web service discovery and composition method outperforms state-of-the-art keyword-based methods as well as an unsupervised machine-learning based method in relation to finding most relevant individual Web services as well as an associated Web service composition. The proposed methodology can be implemented to enhance the search mechanism in Web service repositories as well as to find Web services for developing cutting-edge Web 2.0 mashup applications.